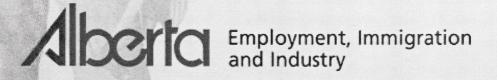
# **Industry Profiles**

# **Utilities Industry**

Revised: February 2008





#### Overview:

The Utilities industry<sup>1</sup> in Alberta includes:

- electric power generation, transmission and distribution;
- natural gas distribution; and
- water, sewer and irrigation systems.

#### Section A: Business Environment

- 1. Employment and Unemployment Numbers and Rates
- 2. Industry Growth
- 3. Company Size

#### Section B: Human Resources Profile

- 1. Occupational Information
- 2. Demographics: Age and Gender
- 3. Wages

#### Section C: Additional Information

- 1. Links to Industry Associations
- 2. Links to Government Library Database

<sup>&</sup>lt;sup>1</sup> North American Industry Classification System (NAICS) major group 22

-weiving ()

The Delities indower in Alberta includes:

- electric power generation, narramission and distribution;
  - bus pointed and learner . See
  - \* works, sewer and integriory systems.

#### 1. 2006 Employment and Unemployment Numbers and Rates:

	Alberta	Utilities Industry
Number of employed	1,870,700	17,100
Percent employed in the industry	resume forcers	0.9%
Number of unemployed	66,800	N/A
Unemployment rate	3.4%	N/A

Note: N/A is reported in instances of insufficient sample size.

For more information on employment numbers or for a historical comparison, go to the <u>Labour Force Survey</u> or <u>Statistics Canada</u> websites.

#### 2. Industry Growth:

- The Utilities industry is expected to grow on average 2.9% annually from 2006 to 2011.
- Approximately 2,644 jobs will be created in the forecast period. Employment is expected to increase to 19,735 by 2011.
- This industry is expected to provide 1.1% of all new jobs in Alberta between 2006 and 2011.

For more information, see the <u>Alberta Modified Canadian Occupational Projection System Outlook</u> (2006-2011) online and the <u>Alberta Learning Information Service (ALIS)</u> website's industry descriptions.

Digitized by the Internet Archive in 2017 with funding from University of Alberta Libraries

#### Outlook

The Alberta Occupational Demand and Supply Outlook (2006-2016), forecasts a supply surplus for the Managers in manufacturing and utilities occupations every year between the forecast period 2006 and 2016. Electricians (except industrial and power systems) are also expected to experience a supply surplus throughout the same forecast period.

Currently, new technology that extracts bitumen from limestone requires vast quantities of electricity and expends a lot of natural gas. Some Alberta energy companies are interested and looking toward harnessing nuclear energy, such as Energy Alberta's proposed CANDU twin nuclear reactor that would decrease the use of natural gas, and may start producing 2,200 megawatts in 2016. Currently, the reactor design exists only on a drawing board.

Due to increasing water usage from oil sands conversion of bitumen to oil and irrigation in agriculture, the prospect of increasing water prices may be used to promote conservation of freshwater supplies. According to the Pembina Institute, the oil sands industry accounts for approximately sixty five per cent of water withdrawals from the Athabasca River. In 2006, the South Saskatchewan River Basin (SSRB) underwent a water management plan to provide guidance for decision makers and provide a foundation for future watershed management planning for sub-basins in the SSRB.

The Alberta Recognitional Elements and Supply Controls (2000-1016), for each a supply surplus for the Manager or manufactuating and uniques occupations. The process the forecast period 2006 and 2006 and 2006. Electricisms (except industrial and power system it are also expected to expected to expected to

Convently, new recimology that extends bounded from timescope requires west question of electricity and expenses a lot of natural year. Some Aloce a case or companies are managing and looking toward businessing reaches energy, such as Emergy Aloce a proposed CARDU remainded to the contract reaches that would decrease the use of about gas, and may descriptioning 2.500 mergawates in 2016. Convently, the reactor design exists only on a drawing mount.

Due to increasing ware grapt from all sueds conversion of largeous as all and irrigation in excitablents, the proof or of local and water proper may be used to prompte conservation of feeth defer supplies. As author to the Personne liquidue, but at most patterny accounts for approximately says five condition water with answels freezible Autological Proof of Sail, to fourth feeth and appropriate to a new provide a foundation for fine a secretary management and appropriate for decision makers and provide a foundation for fine a secretary management.

#### 3. Company Size

Establishment Size	Alberta Bu	sinesses	Utilities		
	Number of Employees	%	Number of Employees	%	
Less than 20 employees	525,000	34.1%	3,100	18.3%	
20 to 99 employees	543,600	35.3%	4,900	29.0%	
100 to 500 employees	292,400	19.0%	5,200	30.8%	
Over 500 employees	178,900	11.6%	3,800	22.5%	

Data Source: Labour Force Historical Review 2006, Statistics Canada

#### Section B: Human Resources Profile

#### 1. Occupational Information:

Some examples of occupations that can be found in the Utilities industry include:

- gas utility operator;
- utility clerk;
- water and wastewater treatment plant operator;
- power lineman; and
- power system electrician.

For a complete listing of all occupations related to this industry, as well as detailed information on education and skill requirements, visit the <u>Alberta Occupational Profiles</u> website.

seems examples of necessations that can be found in the Uniters including the bake

- monompa Walter and
  - shalo valence. \*\*
- not another work measurement, brown address
  - price parameters and
  - Power warms alemanian

or a complete floring of the estagrations relocal to the industry of wall as desided information or which are found on the formation or whereast and two days welcome.

### 2. Demographics: Age and Gender

According to the Labour Force Survey, the gender break-down in the Utilities industry is as follows:

• women employed: 4,100 people, or 24.0%

■ men employed: 13,000 people, or 76.0%

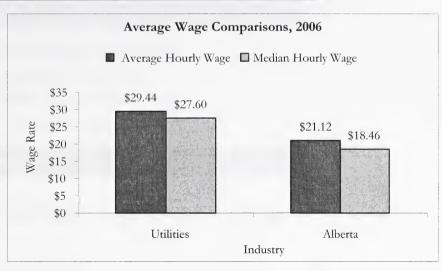
In comparison, women accounted for 45.3% and men made up 54.7% of the total employed in Alberta.

Age Characteristics	Alberta Employees		Utilities Industry Employment		
	Number	0/0	Number	0/0	
15-24 years	329,600	17.6%	N/A	N/A	
25-54 years	1,286,500	68.8%	14,600	85.4%	
55 years and over	254,600	13.6%	N/A	N/A	

Data Source: Labour Force Historical Review 2006, Statistics Canada Note: N/A is reported in instances of insufficient sample size.



#### 3. Wages:



Data Source: Labour Force Historical Review 2005, Statistics Canada

#### Wage and Salary Information for Selected Occupations

Occupation	Av	Average		
	Starting	After 3 years	Тор	Annual Salary
Senior managers - goods production, utilities, transportation and construction	N/A	N/A	\$ 68.14	\$ 120,613
Utilities managers	N/A	\$ 27.99	\$ 34.60	\$ 60,223
Waterworks and gas maintenance workers	\$ 17.16	\$ 20.58	\$ 26.16	\$ 49,660

Data Source: 2005 Alberta Wage and Salary Survey Note: N/A due to insufficient response.

For more information on wages, refer to the <u>WAGEinfo</u> webpage. For job descriptions, duties, required skills and education for specific occupations in the Utilities industry, visit the <u>ALIS</u> website.



### Section C: Additional Information

### 1. Links to Selected Industry Associations:

- Alberta Energy and Utilities Board
- Canadian Gas Association
- Canadian Wind Energy Association
- Canadian Electricity Association

## 2. Link to Government Library Database:

http://www.servicelink.gov.ab.ca/libraries/workplace/

- Alberta Lineau and District December 1
  - Canalina Che madanna
- window Assess That Was been a
  - a lucional annual films of the



LIBRARY AND ARCHIVES CANADA Bibliothèque et Archives Canada 3 3286 53932088 3